

Instructions: Draw a simply diagram to model each problem then list the part to part, and part to whole ratios, simplify if ratios if possible.

1.) Pedro has a bag of marbles with 5 red and 15 blue marbles. Diagram and list the following ratios.

Diagram

Ratios can be written \_\_\_\_\_ many ways. Show all the ways they can be written.

\_\_\_\_\_ red to \_\_\_\_\_ blue, simplify \_\_\_\_\_ to \_\_\_\_\_

$\frac{\text{red}}{\text{all marbles}}$  simplify  $\frac{\text{red}}{\text{all marbles}}$

$\frac{\text{blue}}{\text{all marbles}}$  simplify  $\frac{\text{blue}}{\text{all marbles}}$

2.) Mr. Li's gym class has 14 football players and 8 soccer players. Diagram and list the following ratios.

Diagram

\_\_\_\_\_ football : \_\_\_\_\_ soccer, simplify \_\_\_\_\_ : \_\_\_\_\_

\_\_\_\_\_ football : \_\_\_\_\_ athletes, simplify \_\_\_\_\_ : \_\_\_\_\_

$\frac{\text{soccer}}{\text{athletes}}$  simplify  $\frac{\text{soccer}}{\text{athletes}}$

3.) 7 tacos orders were taken to 14 burritos. Diagram and list the following ratios.

Diagram

$\frac{\text{tacos}}{\text{burritos'}}$  simplify  $\frac{\text{tacos}}{\text{burritos}}$

$\frac{\text{tacos}}{\text{total orders'}}$  simplify  $\frac{\text{tacos}}{\text{total orders}}$

\_\_\_\_\_ burritos : \_\_\_\_\_ orders, simplify \_\_\_\_\_ burritos : \_\_\_\_\_ orders

4.) The Phone Shack sold 9 iPhones and 6 Droids. Diagram and list the ratios.